

TELEPHONE INTERVIEW

Applicant wishes to express his appreciation to the Examiner for his time in the May 21, 2001 telephone interview. The above amendments to claim 1 and the following remarks are in accordance with the material discussed in the telephone interview.

REMARKS

I. Preliminary Remarks

Applicant has carefully considered the detailed Office Action and sets forth amendments and detailed responses herein. Claims 1, 4 and 6 have been amended to more particularly point out and distinctly claim certain aspects of Applicant's invention. No new matter has been added by the amendments. Reconsideration and allowance of the above application is respectfully requested.

Applicant notes that the amendments are not intended to change the scope of the claimed invention. Rather, such amendments are being made solely in response to the Examiner's rejections under 35 U.S.C. §§ 102, 103 and 112. Accordingly, it is respectfully submitted that such amendments do not raise new issues and should be entered in accordance with 37 C.F.R. 1.116(a) and MPEP 714.12 and 714.13.

II. Rejection under 35 U.S.C. §112

Claims 1 and 2 were rejected as having the subject matter "said first sub-screen window [sic] causing said display indicating frame to be moved within said sub-screen" not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor, at the time the application was filed, had possession of the claimed invention.

Support for the claimed subject matter is found in the specification, for example, at page 4, lines 2-8, which describe "a main screen image window for moving the display indicating frame and the display area within the main screen in correspondence to an output representing movement of a pointing device as notified by the first sub-screen window, **the first sub-screen**

window causing the display indicating frame to be moved within the first sub-screen while the pointing device is in dragging state . . .”

Support for the claimed subject matter is also found in the specification, for example, at page 5, lines 2-5, which describe **“the first sub-screen window causing the display indicating frame to be moved within the same page while the pointing device is in dragging state.”**

Although it is not disclosed in the prior art, nor obvious to apply or implement within the context of the present invention, Applicant notes that it was well-known to those skilled in the relevant art at the time of the invention how to program a window to cause an object therein to be moved, such as in correspondence to an output representing movement of a pointing device. For example, it is well-established and easily within the skill of a computer programmer to program a Windows application having windows or frames that utilize notification of an output representing movement of a pointing device to cause objects therein to move in a corresponding fashion. This skill is inherent in the knowledge of programmers skilled in the art.

In view of the exemplary literal support of the claimed subject matter within the originally filed specification, including the implementation of sending notification of pointing device movement to a window for effecting the movement of a view frame therein, Applicant respectfully submits that the claimed limitation is described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the Applicant, at the time the application was filed, had possession of the claimed invention.

III. Rejections Under 35 U.S.C. 102(e) and 103(a)

The Office Action rejected claims 1-7 and 9 according to rationales as set forth in paragraphs 9, 10 and 11 of the last Office Action, dated 10-17-00.

In response to Applicant's previous argument that Eick does not teach the notifying the main window about the movement of the pointing device, the Office Action asserts that this limitation is not clearly recited in claim 1 and is not included in claims 4 or 6. Claims 1, 4, and 6 have therefore been amended to more clearly recite the limitation. Support for the amendments is found in the specification, for example, at page 18, line 21 through page 10, line 10; at page

19, lines 13-18; and at page 20, line 16 through page 21, line 2. These lines in the specification disclose, among other features, the capture of mouse data when the mouse (pointing device) is in a dragging state, the notification of the mouse data from the sub-screen image window to the main screen image window, and the process in which the main screen image window uses the received notification of mouse (pointing device) movement data to move the display area (data) within the main screen image window corresponding to the mouse (pointing device) movement.

In regards to original claim 1, lines 9-13, the Office Action asserts that the claim was amended to recite that “said first sub-screen causing said display indicating frame to be moved within said sub-screen.” Applicant kindly points out that the recitation was included in the original claim, and was not amended as stated by the Office Action. Nevertheless, in response to the assertion of the Office Action that the limitation is not supported by the specification, which discloses that the movement of the display indicating frame is caused by the pointing device, Applicant has amended claim 1 to more clearly recite the limitation so as to be supported by the specification. Although it is implicit that the movement of the display indicating frame is **caused** by the first sub-screen **using** the movement of the pointing device, the claim has been amended to clearly recite that the movement of the display indicating frame is **caused** by the movement of a pointing device, the movement being **effected** due to the sub-screen window. Support for the amendments is found in the specification, for example, at p. 19, lines 5-10. As recited in the claim, these lines in the specification describe that the sub-screen image window causes the view frame 60 on the sub-screen 51 to move corresponding to the movement of the mouse (pointing device). That is, the movement of the mouse (pointing device) causes the view frame 60 to move on the sub-screen 51, the movement being effected by the sub-screen image window.

IV. Conclusion

In view of the above, it is submitted that this application is now in good order for allowance, and such early action is respectfully solicited. Should matters remain which the Examiner believes could be resolved in a telephone interview, the Examiner is requested to telephone the Applicant's undersigned attorney.

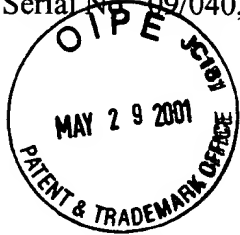
Respectfully submitted,

A handwritten signature in black ink, appearing to read 'M. Brown', is written over a horizontal line.

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ADDENDUM PAGES

VERSION MARKED TO REFLECT CHANGES

I. CHANGES IN THE CLAIMS

1. A window display device which displays image data on a display screen, comprising:
a first sub—screen displaying a first area of image data;
a main screen displaying a part of said first area of image data with enlargement;
a second sub—screen displaying a second area of image data which is adjacent to said first area of image data;

a first sub—screen image window for displaying an area of image data displayed in said main screen with a display indicating frame on said first sub—screen;

said display indicating frame being moved within said first sub-screen, said movement being caused by movement of a pointing device while said pointing device is in a dragging state, said movement of said display indicating frame being effected due to the sub-screen window;

said first sub-screen window notifying a main screen image window of said movement of said pointing device;

said main screen image window receiving said notification from said first sub-screen window;

said[the] main screen image window [for]moving said [display indicating frame and]image data within said main screen in correspondence to [an]the received notification[output representing movement of a pointing device as notified by said first sub-screen window, said first sub-screen window causing said display indicating frame to be moved within said first sub-screen while said pointing device is in dragging state]; and

a second sub-screen image window for displaying said display indicating frame in said second sub-screen when said pointing device has moved said display indicating frame by dragging it into said second sub-screen.

2. A window display device which displays image data having a page delimiter on a display screen, comprising:

a first sub-screen displaying a first area of image data in a sub-screen column;

a main screen displaying a part of said first area of image data with enlargement;

a second sub-screen displaying in said sub-screen column a second area of image data which is adjacent to said first area of image data;

a first sub-screen image window for displaying a reduced image of a page which is currently displayed on said main screen with said first area of image data displayed in said main screen indicated in said first sub-screen image window by a display indicating frame;

a main screen image window for moving said display indicating frame and said image data within said main screen in correspondence to an output representing movement of a pointing device as notified by said first sub—screen window, said first sub—screen window causing said display indicating frame to be moved within the same page while said pointing device is in dragging state;

a second sub-screen image window for displaying said display indicating frame in said second sub-screen when said pointing device has moved said display indicating frame by dragging it into said second sub-screen;

a display screen parent window operative when said pointing device has dropped said display indicating frame at an arbitrary place on said second sub-screen to which said pointing device moved, for switching said main screen to the page to which said pointing device moved and displaying the place indicated by said display indicating frame in said main screen; and

a sub-screen parent window for scrolling said sub-screen so that the sub-screen of the page displayed on said main screen comes to a predetermined position of said sub-screen column.

3. The window display device of Claim 2 in which said subscreen parent window scrolls said sub-screen so that the subscreen of the page displayed on said main screen comes to substantially the central position of said sub-screen column.

4. A window display method of displaying image data on a display screen of a display device having a first sub—screen displaying a first area of image data, a main screen displaying a part of said first area of image data with enlargement and a second sub—screen displaying a second area of image data which is adjacent to said first area of image data, said window display method comprising the steps of:

displaying an area displayed in said main screen with a display indicating frame on said first sub-screen;

notifying a main screen window of movement of a pointing device;

moving said display indicating frame and the image data within said main screen in correspondence to [the]said movement of [a]said pointing device which causes said display indicating frame to be moved within said first sub-screen while said pointing device is in dragging state; and

displaying said display indicating frame in said second sub-screen when said pointing device has moved said display indicating frame by dragging it into said second sub-screen.

5. A window display method of displaying image data having a page delimiter on a display screen of a display device having a main screen displaying a part of a page with enlargement, a first sub-screen displaying a first area of image data of that page in a sub—screen column and a second sub-screen displaying one or more second areas of image data which is adjacent to said page, said window display method comprising the steps of:

displaying a reduced image of a page which is currently displayed on said main screen with the image data displayed in said main screen indicated by a display indicating frame;

moving said display indicating frame and said image data within said main screen in correspondence to the movement of a pointing device which causes said display indicating frame to be moved within the same page while said pointing device is in dragging state;

displaying said display indicating frame in said second sub-screen when said pointing device has moved said display indicating frame by dragging it into said second sub-screen;

switching said main screen to the page to which said pointing device moved to display the place indicated by said display indicating frame in said main screen when said pointing device has dropped said display indicating frame at an arbitrary place on said second sub-screen to which the pointing device moved to display the place indicated by said display indicating frame in said main screen; and

scrolling said sub—screen so that the sub-screen of the page displayed on said main sub-screen comes to a predetermined position of said sub—screen column.

6. A recording medium recording a display control program for operating a computer system having a display device for displaying image data on a display screen of said display device, said display control program causing said computer system to:

display a first sub—screen displaying a first area of image data;

display a main screen displaying a part of said first area of image data with enlargement;
display a second sub-screen displaying a second area of image data which is adjacent to said first area of image data;

display the part of said first area of image data displayed in said main screen on said first sub-screen with a display indicating frame;

notify a main screen window of movement of a pointing device;

move said display indicating frame and said image data within said main screen in correspondence to [the]said movement of [a]said pointing device which causes said display indicating frame to be moved within said first sub-screen while said pointing device is in dragging state; and

display said display indicating frame in said second sub-screen when said pointing device has moved said display indicating frame by dragging it into said second sub-screen.

7. A recording medium recording a display control program for operating a computer system having a display device for image data having a page delimiter on a display screen of a display device, said display control program causing said computer system to:

display a main screen displaying a part of a page with enlargement:

display first sub-screen displaying a first area of image of that page in a sub-screen column;

display a second sub—screen displaying one or more second areas of image data which is adjacent to said page in said sub-screen column;

display a reduced image of a page which is currently displayed on said main screen with the image data displayed in said main screen indicated by a display indicating frame;

move said display indicating frame and said image data within said main screen in correspondence to the movement of a pointing device which causes said display indicating frame to be moved within the same page while said pointing device is in dragging state;

display said display indicating frame in said second sub-screen when said pointing device has moved said display indicating frame by dragging it into said second sub-screen;

switching said main screen to the page to which said pointing device moved to display the place indicated by said display indicating frame in said main screen, when said pointing device has dropped said display indicating frame at an arbitrary place on said second sub-screen to which said pointing device moved; and

scroll said sub-screen so that the sub-screen of the page displayed on said main sub-screen comes to a predetermined position of said sub-screen column.

9. A window display device according to claim 1, wherein said display indicating frame has a width and a height, said width being less than a width of said first sub-screen and said height being less than a height of said first sub-screen.